

## CLAIMS

What is claimed is:

Sub A(1.  
1 A power supply circuit for a digital processing system, the circuit comprising:  
2 a first stage associated with a first component of the digital processing system;  
3 and  
4 a second stage associated with a second component of the digital processing  
5 system, said second stage coupled to said first stage;  
6 wherein said first stage drives said second stage.

1 2. The circuit of claim 1, wherein said first and second stages are separated from  
2 each other.

1 3. The circuit of claim 2, wherein said first and second stages are coupled to each  
2 other by a two wire bus.

1 4. The circuit of claim 3, wherein said two wire bus is differentially driven by said  
2 first stage.

1 5. The circuit of claim 2, wherein said first component comprises a display device  
2 and said second component comprises a microprocessor.

1 6. The circuit of claim 5, wherein said first stage is located proximately to said  
2 display device and said second stage is located proximately to said microprocessor.

1 7. The circuit of claim 1, wherein said first stage provides power for said first  
2 component and said second stage provides power for said second component.



2 a power supply circuit coupled to at least a display device and a microprocessor  
3 of the computer system, wherein said power supply circuit is capable of supplying  
4 power to said display device and said microprocessor using at least two distinct power  
5 supply stages.

Sub A1  
1 16. The computer system of claim 15, wherein said power supply circuit comprises:  
2 a main circuit coupled to one of said display device and said microprocessor;  
3 and  
4 a secondary circuit coupled to the other of said display device and said  
5 microprocessor;  
6 wherein said main circuit drives said secondary circuit.

1 17. The computer system of claim 16 wherein one of said at least two distinct power  
2 supply stages includes said main circuit, and wherein another of said at least two  
3 distinct power supply stages includes said secondary circuit.

1 18. The computer system of claim 16, wherein said main circuit and said secondary  
2 circuit are physically isolated from each other.

1 19. The computer system of claim 18, wherein said main circuit and said secondary  
2 circuit are electrically coupled to each other.

1 20. The computer system of claim 16, wherein said main circuit comprises a flyback  
2 converter and said secondary circuit comprises a portion of a forward converter.

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